

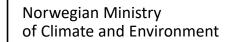
Sjøsikkerhetskonferansen 2018

Nå



IMOs klimastrategi

Sveinung Oftedal Fagdirektør, Klima- og miljødepartementet



IMOs klimastrategi

Sveinung Oftedal

Fagdirektør







Når blir det å løse utfordringen viktigere enn mulige negative konsekvenser for den etablerte økonomien





When to act is priority!

- 1989: Exxon Valdez Dbl tankers (OPA 90 → IMO/MARPOL requirement)
- 1999: ERIKA Accellerated phase out single hull tankers (EU →IMO/MARPOL requirement)
- 2002: Prestige Enough is enough! Single hull out by 2010.
 (EU →IMO/MARPOL requirement)







NEWS

TODA

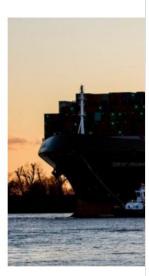
Science & Environmen

Global shippi



David Shukman

(1) 13 April 2018



The global shipping indust of greenhouse gases.

The move comes after talks (IMO) in London.

Violeta Bulc

Menu

Følg

#Shipping sector has delivered! The agreement reached this week at the @IMOHQ is a significant step forward in the global efforts to tackle #ClimateChange. Work must now continue on further steps. #MEPC72 europa.eu/!wC68RK



08:58 - 13. apr. 2018

48 retweets 82 liker















EU Transport, IMO og European Commission

Violeta Bulc @Bulc EU · 13. apr. Congrats to #IMO SG Lim, Chair Oftedal, and #EU Member States on their commitment to reach this deal

Jnngå innbrud vene velger boliger uten a Les mer her

Carbon emis shipping to I IMO

Santé-environnement

going to cut its 's a big deal.

Andrew Wong Published 12:34 AM ET Fri, 27 April 2018 M CNBC

Elvestuen said.

PREVIOUSLY

says

aritime, maillon faible

News InFact Politics Voices Indy/Life

égocient les premiers objectifs chiffrés de z à effet de serre.

cette fois, au rendez-vous ? Réunis à Londres,

des objectifs chiffrés de réduction de leurs

re. Le sujet, inscrit au calendrier des





It's possible — but difficult — to

halve shipping emissions, official

"Ambitions for 50 percent reduction by 2050 are definitely difficult, but it's achievable.

that we need for the future." Norway's Minister of Climate and Environment Ola

And now we have a situation where we really have to start with developing green shipping

Climate-Changed

≥ 2:59

Nations Strike Historic Deal to Curb Shipping **Emissions**

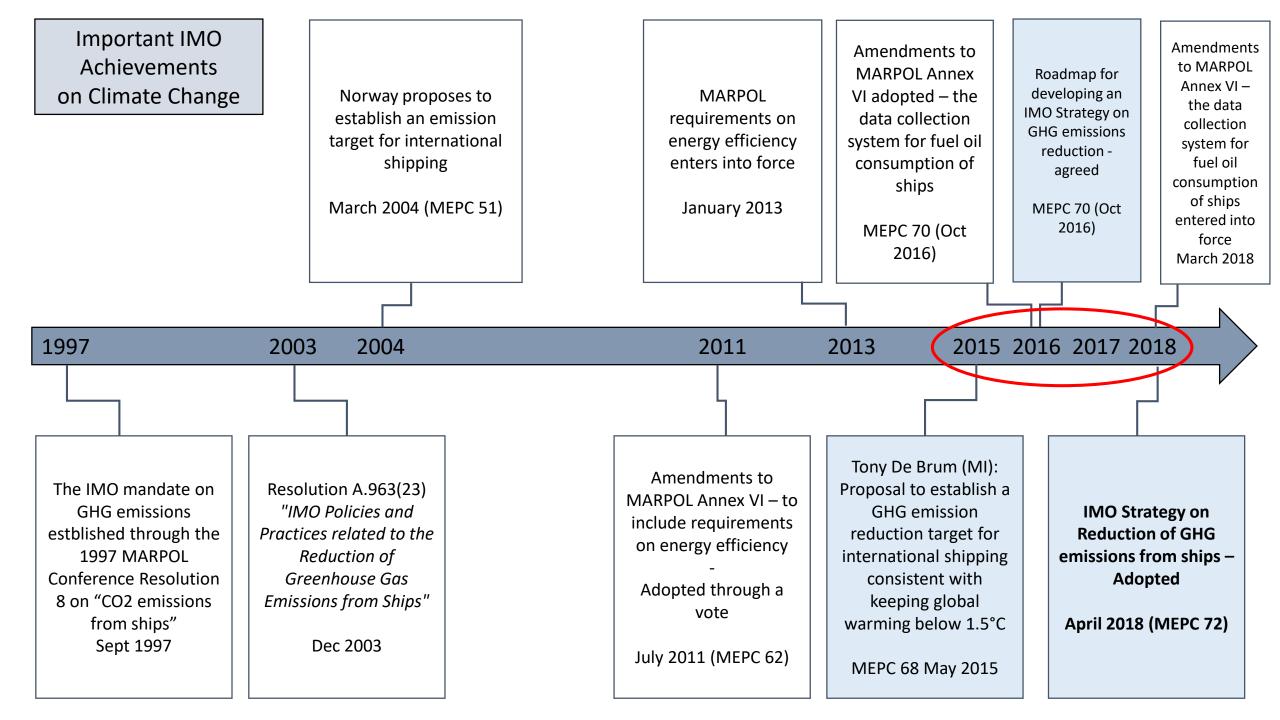
By Anna Hirtenstein and Jeremy Hodges 13. april 2018 16.11 Updated on 13. april 2018 17.00

▶ Industry agrees to cut emissions by at least 50% by 2050

janisation maritime internationale (OMI) doiven ▶ U.S., Russia and Saudi Arabia object to emissions proposals

> Most of the world's nations agreed to an historic deal that for the first time LISTEN TO ARTICLE will limit emissions from the global shipping industry.





Key Challenges

"Vision – levels of ambition – guiding principles"

Meaningful strategy – vs – meaningless strategy

Ambition:

High Ambition – vs – No Ambition

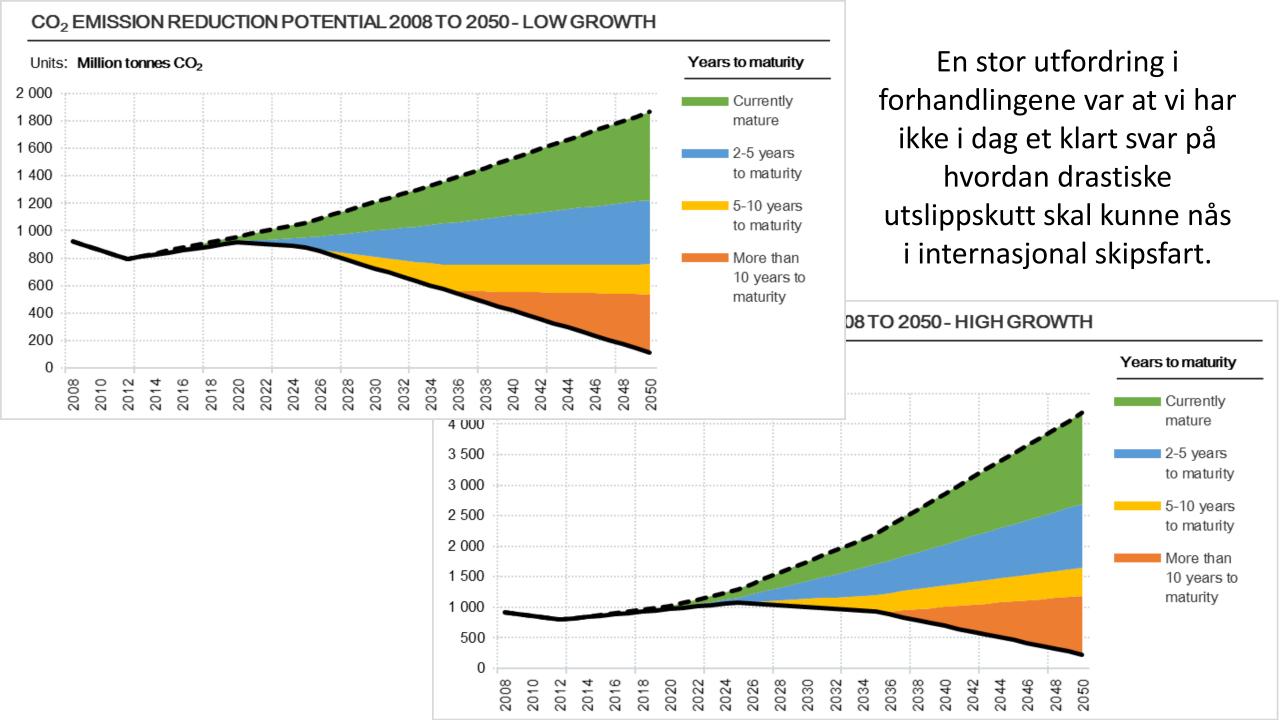
Efficiency only! – vs – efficiency for the ship and efficiency for the sector and reducuction of total emissions

Numbers – vs – No numbers

Principles:

Differentiation – vs – No differentiation

Figure 1.1. Organization for Economic Cooperation and Development index of industrial production and world indices: Gross domestic product, merchandise trade and seaborne shipments, 1975-2016 (1990 = 100)350 300 250 200 150 Demand for seaborn transport will grow 37% towards 2050 World seaborne trade: tonne-miles Units: Tt-nm/yr Crude oil Oil products Natural gas * World gross domestic OECD index of industr The performance of each individual World seaborne trade ship needs to improve significantly in Sources: UNCTAD secretariat calculations, based on data from OECD, 2017; United Nations, order to reduce the total Transport, various issues; World Trade Organization, 2012. 60 Note: Index calculations are based on GDP and merchandise trade in dollars, and seaborne trade environmental burden of shipping Average growth of 2%/yr to 2030, then 0.2%/yr towards 2050 Source: DNV GL 2020 2030 2040 Sources: forecast - DNV GL: historical data - Clarkson Research, 2017



Important elements of the Initial GHG Strategy

Vision: IMO remains committed to reducing GHG emissions from international shipping and, as a matter of urgency, aims to phase them out as soon as possible in this century.

Extract from the Ambition

.1 carbon intensity of the ship to decline through implementation of further phases of the energy efficiency design index (EEDI) for new ships

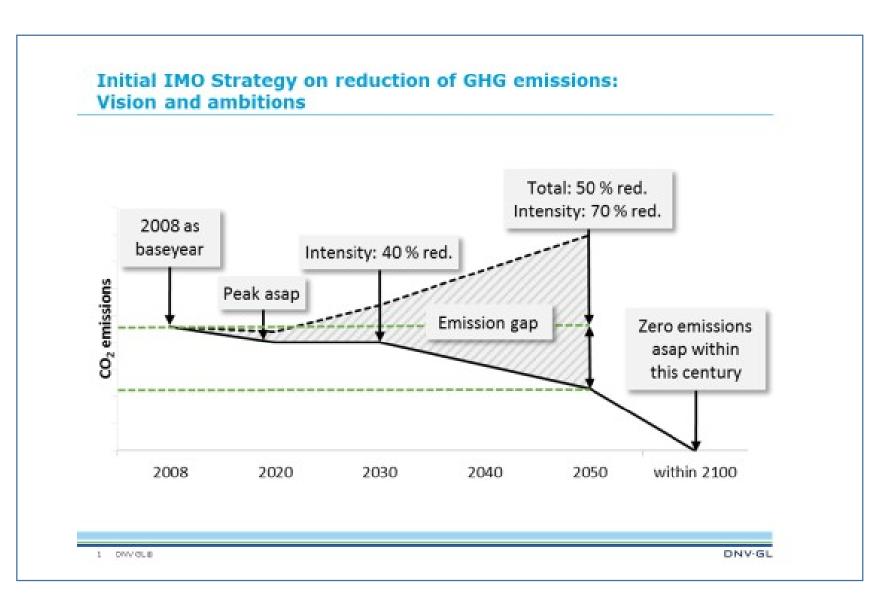
to review with the aim to strengthen the energy efficiency design requirements for ships with the percentage improvement for each phase to be determined for each ship type, as appropriate;

.2 carbon intensity of international shipping to decline

to reduce CO2 emissions per transport work, as an average across international shipping, by at least 40% by 2030, pursuing efforts towards 70% by 2050, compared to 2008; and

.3 GHG emissions from international shipping to peak and decline

to peak GHG emissions from international shipping as soon as possible and to reduce the total annual GHG emissions by at least 50% by 2050 compared to 2008 whilst pursuing efforts towards phasing them out as called for in the Vision as a point on a pathway of CO2 emissions reduction consistent with the Paris Agreement temperature goals.

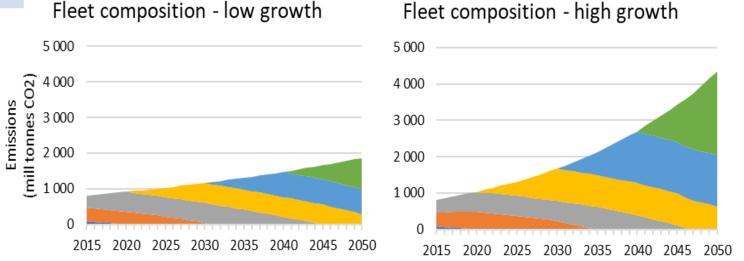


Fleet profiles in 2030 and 2050 – assuming no changes in carbon intensity

Distribution of emissions per generation of ships:

Generation	Current	Low growth		High growth	
	2015	2030	2050	2030	2050
Ships built before 2000	24 %	-	-	-	-
Ships built 2000-2010	40 %	7 %	-	12 %	-
Ships built 2010-2020	36 %	45 %	-	36 %	-
Ships built 2020-2030		48 %	16 %	52 %	15 %
Ships built 2030-2040		-	38 %	-	33 %
Ships built 2040-2050		-	46 %	-	52 %



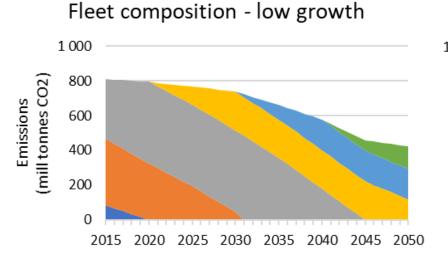


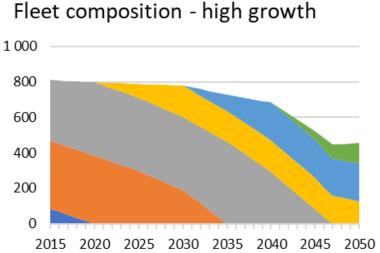
Fleet profiles in 2030 and 2050 – Improvements in carbon intensity to reach ambitions

Reduction needed compared to 2015 fleet average:

Generation	Low growth	High growth
Ships built 2000-2010	-10 %	-20 %
Ships built 2010-2020	-15 %	-25 %
Ships built 2020-2030	-50 %	-70 %
Ships built 2030-2040	-75 %	-85 %
Ships built 2040-2050	-85 %	-95 %







IMO – Follow-up actions on Climate Change

2018-2023

Action plan

Initiate GHG-study

Aproach to Impact on States

Development of measures such as:

- Energy efficiency
 - Assess fuels
- Tech. Cooperation
- National Action Plans

Develop revised GHG strategy

2023-2030

Development of measures such as:

A 100 IS

Energy efficiency

Implementation programme for uptake of low-carbon and zero-carbon fuels

New and innovative emission reduction mechanism(s)

Develop revised GHG strategy

2030 →

Development of measures such as:

Provisions for lowcarbon and zero-carbon fuels

Adoption of new and innovative emission reduction mechanism(s)

Develop revised GHG strategy





Sjøsikkerhetskonferansen 2018